"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, I.D.

Deformative properties of shell-rock concretes based on limestone shell rocks form Bagerovo deposits. Trudy Inst.stroi. dela AN Gruz.SSR. 7:181-187 '59. (MIRA 13:5)
(Lightweight concrete) (Bagerovo District--Limestone)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, I.D.; TATISHVILI, A.Z.; LOMIDZE, N.M.

Effect of chemical additives on accelerating the hardening of pumice concrete. Trudy Inst.stroi.dela AN Gruz.SSR 8:107-118 '60. (MIRA 14:10)

(Lightweight concrete)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, I.D.; TATISHVILI, A.Z.; LOMIDZE, N.M.

Some problems in choosing the best composition for pumice concrete.
Trudy Inst.stroi.dela AN Gruz.SSR 8:137-142 '60. (MIRA 14:10)
(Lightweight concrete)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, I.D.; CHIPASHVILI, V.V.

Organizing prefabricated house building in the Georgian S.S.R. Trudy Inst. stroi.mekh. i seism. AN Gruz. SSR 9:123-132 '63.
(MIRA 17:12)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, I.D.; DZHGAMADZE, O.V.

Using the ultrasonic impulse method in the investigation of the strength and uniformity of concrete in reinforced concrete panels. Trudy Inst. stroi. mekh. i seism. AN Gruz. 10:187-194 '64. (MIRA 18:11)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, I.G.; NADIRASHVILI, Ye.M.

Ultraviolet radiation effect on iron hydroxide sols in the presence of gelatin. Trudy Inst. prikl. khim. i elektrokhim. AN Gruz. SSR 4:75-80 '63. (MIRA 17:5)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

ACCESSION NR: AP4038714 S/0251/64/034/001/0079/0084

AUTHORS: Nanobashvili, Ye. M.; Bakhtadze, I. G.

TITLE: Alteration of the structural-mechanical properties of gelatin under the action of ionizing radiation

SOURCE: AN GruzSSR. Soobshcheniya, v. 34, no. 1, 1964, 79-84

TOPIC TAGS: gelatin, physicomechanical property, ionizing radiation, x ray irradiation, gamma irradiation, cobalt 60, gelatin irradiation, gel formation, viscosity, gelatin strength, gelatin structure, structuration, RUP 400 x ray apparatus

ABSTRACT: Aqueous 1-5% solutions of gelatin were subjected to irradiation by the RUP-400 x-ray apparatus or by $Co^{60}$ of 6 Kcurie units intensity at temperatures within a 20-30C range. Determinations of ultimate shearing stress were conducted by means of the Veylor-Rebinder apparatus, and a relationship was established between the radiation dose, the temperature, and the $P_M$ value (dynes/cm$^2$). It was found that in a 1% gelatin solution the absorption of 2.46 eV/ml·$10^{18}$ units of energy at 20C raised the $P_M$ value from an original 200 to over 830 dynes/cm$^2$,

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ACCESSION NR: AP4038714

resulting in gelation. It was observed that irradiation with higher doses of x-rays or gamma rays and the irradiation of higher concentrations of gelatin caused an increased gelation. Higher temperatures had a detrimental effect on the $P_N$ of irradiated gelatin solutions, and at 27C the ultimate shearing stress decreased to below its original value due to a structural breakdown of the gelatin. The authors discuss the theoretical aspects of gelation under the impact of ionizing radiation. Orig. art. has: 3 tables, 2 charts, and 2 formulas.

ASSOCIATION: Akademiya nauk Gruzinskoy SSR (Academy of Sciences, Georgian SSR); Institut prikladnoy khimii i elektrokhimii (Institute of Applied Chemistry and Electrochemistry)

SUBMITTED: 01Jul63

SUB CODE: GC

NO REF SOV: 003

ENCL: 00

OTHER: 000

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APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

NANOBASHVILI, Ye.M.; SIMONIDZE, M.Sh.; BAKHTADZE, I.G.

Effect of ultraviolet rays on the colloidal solutions of silver and gold. Trudy Inst.prikl.khim.i elektrokhim.AN Gruz.SSR 3:129-136 '62. (MIRA 16:1)
(Silver) (Gold) (Ultraviolet rays)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

NANOBASHVILI, Ye.M.; BAKHTADZE, I.G.

Effect of ultraviolet radiation on the colloidal solutions of macromolecular compounds. Trudy Inst.prikl.khim.i elektrokhim. AN Gruz.SSR 3:137-142 '62. (MIRA 16:1)
(Macromolecular compounds) (Colloids) (Ultraviolet rays)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

NANOBASHVILI, Ye.M.; DAKHTADZE, I.G.

Change of the structural and mechanical properties of gelatin under the effect of ionized radiation. Soob. AN Gruz. SSR 34, no.1:79-84 Ap'64 (MIRA 17:8)

1. Institut prikladnoy khimii i elektrokhimii AN Gruzinskoy SSR, Tbilisi. Predstavleno chlenom-korrespondentom Akademii N.A.Kondriya.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, K. Ye.

"The First Accounts of an Experiment on Tea-Type Plants in Gruzi," Agrobiol., 2, 1948

"Scientific Investigations on the Biology, Selection, and Seed Growing of the Tea Plant and for Producing the New High-yield Grades of Tea," Gruzinskiy, Nos. 1-2.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, K. YE

Bakhtadze, K. Ye.: "The selection of tea plants on the basis of Michurin's teachings", Byulleten' Vsesoyuz. nauch.-issled. in-ta chay i subtrop, kul'tur, 1948, No. 4, p. 83-87.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

MAKHTADZE, K. Ye., Prof.

Tea

New large-leaf type of tea plant, Agrobiologiia No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

USSR/Cultivated Plants - Tropical. Subtropical. M.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44364

Author : Bakhtadze, K.Ye.
Inst : -
Title : Growing of the Tea Seed Varieties.

Orig Pub : Vestn. s.-kh. nauki, 1957, No 2, 53-60

Abstract : This study recommends groups of selected tea hybrids developed by the All-Union Scientific and Research Institute of Tea and of Subtropical Cultures for seed plantations. The article presents methods of growing and maintenance for the seed plants. The methods secure a high seed productivity. -- I.K. Fortunatov

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

USSR/Cultivated Plants. Fruit Trees. Small Fruit Plants. M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77806.

Author : Dakhtadze, K. Ye.
Inst :
Title : Soviet Tea Growing.

Orig Pub: Agrobiologiya, 1957, No 5, 55-66.

Abstract: Tea plantations in the USSR occupy 74,000 ha. of which 10,000 are in Azerbaydzhan and the Krasnodarsk Kray and 64,000 in Georgia. Experimental work in tea crop is being carried on in Anaseuli, Sukhumi, Chakva, Zugdidi, Kolkhide, Lenkoran and Sochi. The following are some achievements of Soviet science and practice as regards tea: mechanization of a series of activities, espalier distribution of shrubs, nest planting in

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nurseries, creation of mycotrophic bedding in plantations (increase of harvest in the first year 1 t/ha, in the second - 2.8 t/ha), rational system of pruning shrubs and collection of leaves, development of agronomical complex, which provides a harvest of leaves in Georgia on the average of 2.7 t/ha, and on plots of the leading farmers - 8 t/ha. An assortment of hybrid tea was created from 16 numbers intended for the different rayons of the Soviet subtropics, and a method was developed of additional pollination of the seed plants which gives an increase of seed harvest by 240%. The best numbers of the selected tea surpass the control by 13% in content of tannic acid and



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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

USSR/Cultivated Plants. Fruit Trees. Small Fruit Plants. M

Abs Jour: Ref Zhur-Biol., No 17, 1950, 77006.

by 7% in content of extractive substances. The winter resistant Severnyy hybrid endured frosts up to -26° with snow cover in the foothills of Kuban. -- S. I. Petyayev.

Card : 3/3



APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

USSR

Cultivated Plants. Fruits. Berries. Nuts, Tea.

Ref Zhur-Biologiya, No.1, 1959, No. 1865

Baklanize, T.Ye.

Development of Tea Cultivation in USSR

Vestn. s.-kh. nauki, 1958, No.4, 24-32

No abstract

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137

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, K.Ye., akademik.

Producing tea varieties with improved winterhardiness. Dokl. Akad. sel'khoz. 23 no.7:22-30 '58. (MIRA 11:8)

1. Filial Vsesoyuznogo nauchno-issledovatel'skogo instituta chaya i subtropicheskikh kul'tur.
(Tea--Frost resistance)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, K.Ye., akademik

Growing tea in hills. Agrobiologiia no.2:269-279 Mr-Ap '59.
(MIRA 12:6)

1. Deystvitel'nyy chlen Akademii nauk Gruzinskoy SSSR, Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I. Lenina Filial Vsesoyuznogo nauchno-issledovatel'skogo instituta chaya i subtropicheskikh kul'tur, g. Chakva.
(Tea)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, K.Ye., akademik

System of developing high-quality tea varieties. Dokl.Akad. sel'khoz. 24 no.1:21-28 '59. (MIRA 12:2)

1. Filial Vsesoyuznogo nauchno-issledovatel'skogo instituta chaya i subtropicheskikh kul'tur.
(Tea--Varieties)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, K.E.

[Development of tea culture in the U.S.S.R.]Razvitie kul'tury chaia v SSSR. Tbilisi, Akad. nauk Gruzinskoi SSR. 1961. 170 p.
(MIRA 15:10)

(Tea)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, K.Ye., akademik

Help of science in obtaining an abundant production on subtropical farms. Agrobiologiia no.6:923-925 N-D '61.
(MIRA 15:2)

1. Filial Vsesoyuznogo nauchno-issledovatel'skogo instituta chaya i subtropicheskikh kul'tur, Chakva, Gruzinskaya SSR i Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina.
(Tropical crops)
(Agricultural research)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

ODISHARIYA, Konstantin Yuvlonovich, kand. biol. nauk, starshiy nauchnyy sotr.; BAKHTADZE, K.Ye., akademik, red.; KAKABADZE, Dzh.M., red. izd-va; BOKERIYA, E.B., tekhn. red. MACHABELI, M.G., tekhn. red.

[Characteristics of the growth and development of main evergreen angiospermous plants on the Black Sea coast of the Caucasus]Osobennosti rosta i razvitiia glavneishikh vechnozelenykh pokrytosemennykh rastenii Chernomorskogo poberezh'ia Kavkaza. Tbilisi, Izd-vo Akad. nauk Gruzinskoi SSR, 1961. 254 p. (MIRA 15:12)

1. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Odishariya). 2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk (for Bakhtadze).

(Georgia--Evergreens)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, K.Ye., akademik

Genetics and the breeding of the tea plant. Agrobiologiia no.4:510-517 Jl-Ag '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut chaya i subtropicheskikh kul'tur, Chakva, Gruzinskaya SSR. Vsesoyuznaya adademiya sel'skokhozyaystvennykh nauk imeni Lenina.
(BREEDING)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

LUK'YANENKO, P.P., akademik (Krasnodar); CHERNENKO, S.F., prof. (Michurinsk); LITOVCHENKO, G.R., knad. sel'skokhozyaystvennykh nauk; KOREN'KOV, V.A.; SELIVANOV, A.I., prof.; CHERNIGOVSKIY, V.N.; DUBROVSKIY, A.A.; BAKHTADZE, K.Ye., akademik (Stantsiya Chakva)

Great strides of Soviet science. IUn. nat. no.11:3, 27, 31, 33, 35-36 O '62. (MIRA 16:5)

1. Chleny-korrespondenty Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni Lenina (for Koren'kov, Slivanov). 2. Deystvitel'nyy chlen Akademii nauk SSSR (for Chernigovskiy). 3. Rukovoditel' laboratorii Vsesoyuznogo nauchno-issledovatel'skogo instituta mekhanizatsii sel'skogo khozyaystva (for Dubrovskiy).
(Science news)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTAJ[illegible]E, K.Ye., akademik

Using composts to grow large tea crops. Agrobiologiia no.2:260-264 Mar-Ap '64. (MIRA 17:6)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. Lenina, i Vsesoyuznyy nauchno-issledovatel'skiy institut chaya i subtropicheskikh kul'tur, g. Chakva, Gruzinskaya SSR.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, K.Ye., akademik

Fundamentals of the production of high-grade tea seed.
Agrobiologiia no.2:174-183 Mr-Ap '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut chaya i subtropicheskikh kul'tur, g. Chakva.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

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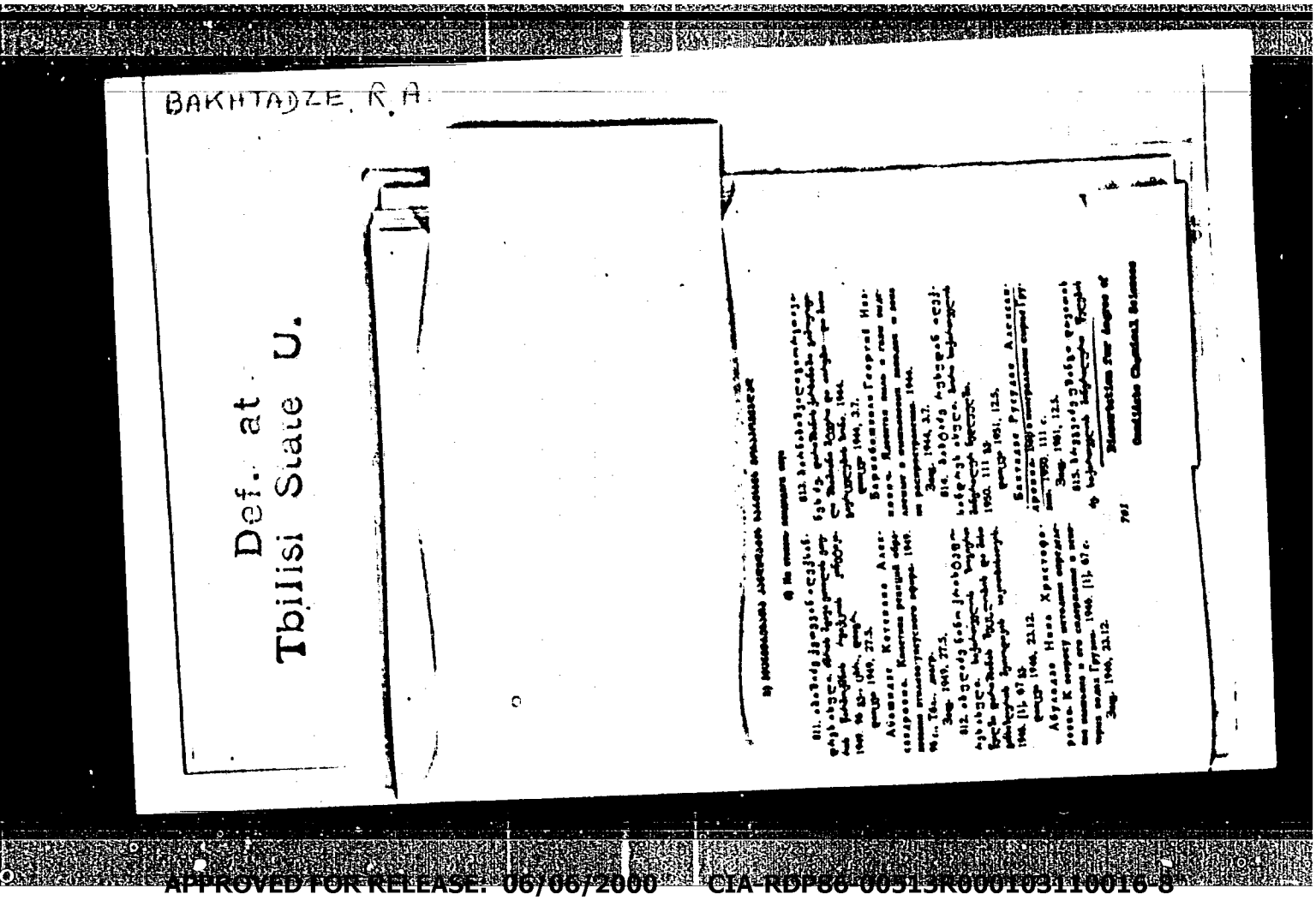


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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

[redacted], T. A., [redacted], N. A., and [redacted], N. F.

"The Utilization of Meat Hydrolysates in the Production of a Bacteriophage", Works of the Tbilisi Scientific-Research Institute of Microbiology, Epidemiology, and Bacteriophages, Vol. 2, pp 103-106, 1950.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, T.N., assistant

Fault detector in mine cables with use of semiconductors.
Izv.vys.ucheb.zav.; gor.zhur. no.1:60-65 '59.
(MIRA 13:1)

1. Gruzinskiy politekhnicheskiy institut. Rekomendovana kafedroy gornoy elektrotekhniki.
(Electricity in mining--Equipment and supplies)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

S/271/63/000/002/002/030
A060/A126

AUTHOR: Bakhtadze, T. N.

TITLE: On the problem of designing semiconductor flip-flops

PERIODICAL: Referativnyy zhurnal, Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, no. 2, 1963, 10, abstract 2A53 (Tr. Tbilissk. n.-i. in-ta priborostr. i sredstv avtomatiz., 1960, v. 2, 209 - 219, summary in Georgian)

TEXT: The author analyzes a design method for a low-frequency flip-flop using planar triodes, which makes it possible to design with a sufficiently high degree of accuracy a flip-flop with stable operation in a specified temperature range. The proposed design method makes it also possible to clarify a number of deviations from normal operation which occur in the operation of the flip-flop. General recommendations are given for the choice of the operating schedule for the operation of the triodes and an actual example of design is cited. There are 8 figures and 4 references.

[Abstracter's note: Complete translation] V. S.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

L 19312-63
ACCESSION NR: AR3005874 S/0271/63/000/007/B044/B044

SOURCE: RZh. Avtomatika, telemekhanika i vy*chislitel'naya tekhnika, Abs. 7 B230

AUTHOR: Bakhtadze, T. N.

TITLE: Thermal compensation of semiconductor triode switching circuits

CITED SOURCE: Tr. Tbilissk. n.-i. in-ta priborostr. i sredstv avtomatiz., v. 3, 1962, 138-147

TOPIC TAGS: thermal compensation, semiconductor triode, switching circuit, computer component

TRANSLATION: Calculations of thermal compensation of triode switching circuits are examined. The following should be known for these calculations: the temperature dependence of the input voltage at the base of the open triode $U_{in}$, the initial current of the collector $I_{col}$ of the closed triode, the initial current of the open triode $I_{col}'$, and the current amplification factor $\beta$ for an actual triode. Significant variance in these relationships was observed in triodes of the same type and temperature dependences of $U_{in}$ and $\beta$ for an actual triode were determined by the mode of operation of the triode. It is necessary to carry out

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ACCESSION NR: AR3005874

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calculations of thermal compensation separately for the closed state in order to ensure constancy of the blocking voltage at the base of the triode and for the saturation mode in order to ensure constancy of the voltage on the collector of the open triode. Thermal compensation by means of a single thermal resistor in the input circuit cannot ensure strict constancy of the operation of the triode over a wide range of temperatures. Strict thermal compensation should be achieved in two successive circuits: in the input circuit for $I_{col}$ and in the load for $\beta$. Strict thermal compensation ensures a decrease in the degree of saturation with changes in temperature, which in turn permits retention of high speed in the circuitry over a range of temperatures. There are seven illustrations. The bibliography contains five references. B. O.

DATE ACQ: 15Aug63 SUB CODE: GE, CP ENCL: 00

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTADZE, T.N., kand. tekhn. nauk; STEFANIDI, K.L., inzh.

Centralized signalization and communication for pendulum-type passenger cableways. Izv.vys.ucheb.zav.;gor.zhur. 7 no.9:168-173 '64.
(MIRA 18:1)

1. Institut gornogo dela imeni G.A.TSulukidze AN Gruzinskoy SSR. Rekomendovana kafedroy avtomatizatsii proizvodstvennykh protsessov Sverdlovskogo gornogo instituta.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

MIKELADZE, Irakliy Solomonovich; BAKHTADZE, V., dotsent, redaktor

[National economy of Georgia in the sixth five-year plan (1956-1960)] Narodnoe khoziaistvo Gruzii v shestoi piatiletke (1956-1960 gg.). Tbilisi, Izd. Ob-va po rasprostraneniiu polit. i nauchnykh znanii Gruzinskoi SSR, 1956. 46 p. (MLRA 10:9)

1. Zamestitel' predsedatelya komissii po planirovaniyu Soveta Ministrov Gruzinskoy SSR. (for Mikeladze)
(Georgia--Economic policy)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

GVERDTSITELI, I.G.; NIKOLAYEV, Yu.V.; OZIASHVILI, Ye.D.; ORDZHONIKIDZE, K.G.; MUSKHELISHVILI, G.N.; KILADZE, N.Sh.; MIKIRTUMOV, V.R.; BAKHTADZE, Z.I.

Automatic cascade apparatus for producing the heavy isotope of nitrogen in high concentrations. Atom.energ. 10 no.5:487-492 My '61. (MIRA 14:5)

(Nitrogen—Isotopes) (Isotope separation)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

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L 10364-63
ACCESSION NR: AP3002728 S/0120/63/000/003/0097/0099

49
48

AUTHOR: Muskhelishvili, G. N.; Bakhtadze, Z. I.

TITLE: Generator of large time intervals and a precision time relay

SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1963, 97-99

TOPIC TAGS: transistorized pulse generator, large time intervals, current discriminator, keyed circuit, capacitor bank, contactless time relay

ABSTRACT: The transistorized pulse generator described is designed to obtain precise large time intervals. The circuit of the generator is shown in Fig. 1 of the Enclosure. A capacitor is charged through a resistor R. The diode D is cut off by a voltage U0, which is taken from a voltage divider consisting of resistors R1 and R2. When the voltage on the capacitor exceeds U0 the diode becomes conducting, and the current flows through current discriminator A (a monostable multivibrator), which controls the key circuit K. Then the key circuit is closed and the capacitor discharges through the diode. After the capacitor discharge, the keying circuit triggers, and the entire cycle is repeated. With

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L 10364-63
ACCESSION NR: AP3002728

a capacitor bank consisting of nine 8-microfarad capacitors, time intervals between pulses of 3.5 min were obtained. The maximum spread did not exceed + or - 0.14%. Temperature variations within 0 and 50C cause variations in the time interval of less than + or - 0.2%. Another experimental unit with a bank of 90-microfarad capacitors generated pulses with a time interval of 4.5 min and maximum deviations not exceeding + or - 0.45%. It is concluded that the generators could be converted into contactless time relays of high accuracy. A brief description of such a circuit is given. Orig. art. has: 5 figures.

ASSOCIATION: Institut elektroniki, avtomatiki i telemekhaniki AN GruzSSR (Institute of Electronics, Automation, and Telemechanics AN GruzSSR)

SUBMITTED: 01Jun62 DATE ACQ: 12Jul63 ENCL: 01

SUB CODE: 00 NO REF SOV: 000 OTHER: 000

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

G[illegible], I.A.; Prinimali uchastiye: KADENTSEV, V.I.; [illegible]FIN, I.V.; LOGASHOVA, K.I.

Effect of the dispersion of raw materials on the properties of piezoceramics. Khim. prom. 41 no.2:39-42 F '65. (MIRA 18:4)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTAMOV, R., inzh.

What is an invention? Izobr.i rats. no.1:52-54 Ja '60.
(MIRA 13:4)

(Inventions)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTAMOV, R., insh.

Weapons of the petroleum workers; man's assault on the earth.
Znan. sila 35 no. 12:1-3 D '60. (MIRA 13:12)
(Oil well drilling)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTAMOV, R.

An ideal means for an ideal end. Izobr. i rats. no.7:31-33 Jl '61. (MIRA 14:6)
(Petroleum engineering—Technological innovations)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTAMOV, R. (g. Baku)

The inventor expected support. Izobr. i rats. no.9:28 S '61.
(MIRA 14:8)
(Oil well pumps—Technological innovations)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTAMOV, R., inzh. (g.Baku)

Economic councils should have experimental factories. Izobr.i rats. no.12:14-16 D '61. (MIRA 14:12)
(Azerbaijan--Industrial management)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTAMOV, R. (Baku)

Inventor helps introduce his innovation. Izobr. i rats. no.1:21-22 Ja '62. (MIRA 14:12)
(Technological innovations)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTAMOV, R., inzh.; KARASIK, G., inzh.

Before the attack on the No.2 space. Izobr.i rats no.10:15-16 O '62. (MIRA 15:9)

(Boring)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTAMOV, R.; DALIN, M.A., doktor tekhn. nauk, prof. akademik, red.; IVANOV, S.M., red.

[Synthetic rubber: problems and solutions] SK: problemy i resheniia. Moskva, Znanie, 1965. 47 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.12)

(MIRA 18:7)

1. Akademiya nauk Azerbaydzhanskoy SSR (for Dalin).

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTAMOV, Rafail Borisovich; KORCHAGIN, Boris Tikhonovich; KORNEYEV, S.G., red.; KHAYKINA, A.Ye., nauchn. red.; POPOV, V.N., tekhn. red.

[Your rights, inventor] Tvoi prava, izobretatel'. Tambov, Tambovskoe knizhnoe izd-vo, 1962. 15 p. (Bibliotechka novatora, no.10) (MIRA 16:10)
(Patents)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8



Akademiya nauk Kazakhskoy SSR. Institut yadernoy fiziki.

Metallovedeniye i obrabotka metallov davleniyem (Physical Metallurgy and Pressworking of Metals) Alma-Ata, 1961. 163 p. (Series: Trudy Instituta yadernoy fiziki, t. 4) 2,450 copies printed.

Resp. Eds.: I. G. Grinman and A. A. Presnyakov; Resp. Secretary: V. V. Chervyakova; Eds.: M. Ya. Brailovskaya and T. I. Shevchuk; Tech. Ed.: E. P. Korokina.

PURPOSE: This book is intended for scientific research workers, technical personnel in industry, and students and aspirants interested in problems of physical metallurgy and the pressworking of metals.

COVERAGE: The book, Volume IV of the Transactions of the Institute of Nuclear Physics, Academy of Sciences Kazakh SSR, contains papers reviewing problems of physical metallurgy. Attention is given to a consideration of metal ductility, strength, phase transformation, and the ordering of various alloys, and to a discussion of the diffusion mechanism of the plasticity. Experimental findings concerning strength, deformation, and external friction in the working of non-ferrous metals and alloys are included in papers dealing with metal rolling.

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Physical Metallurgy and Pressworking of Metals SOV/5099

Problems of automatic inspection and control of multicraft wire-drawing frames are also considered. Most of the papers are accompanied by references, the majority of which are Soviet.

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Physical Metallurgy and Pressworking of Metals SOV/5090

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Physical Metallurgy and Pressworking of Metals SOV/3020

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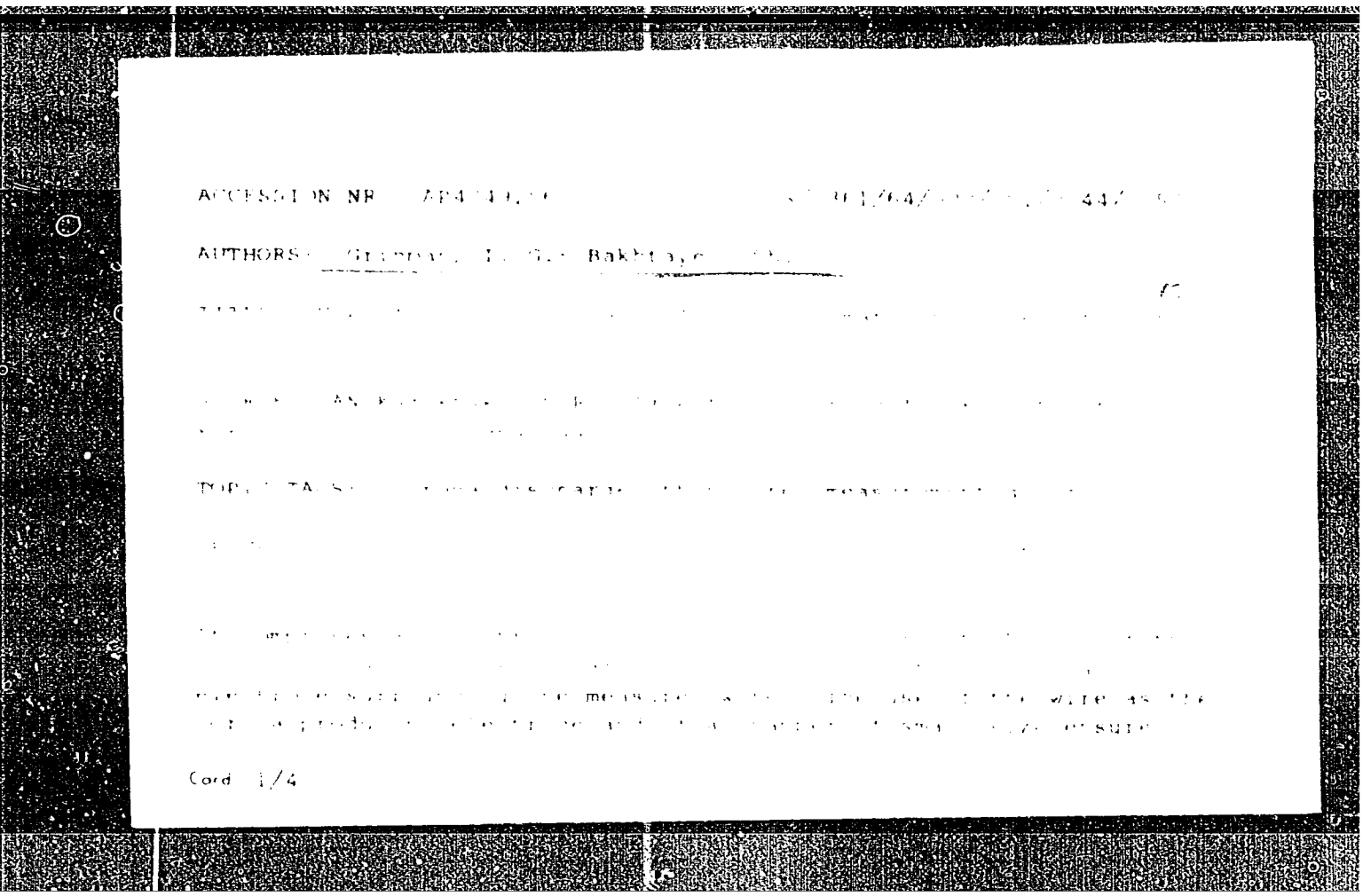

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AUTHORS

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wires (30--80 μ), and demonstrated the feasibility of the method. Tests aimed at improving the sensitivity and accuracy are now under way. Orig. art. has: 5 figures.

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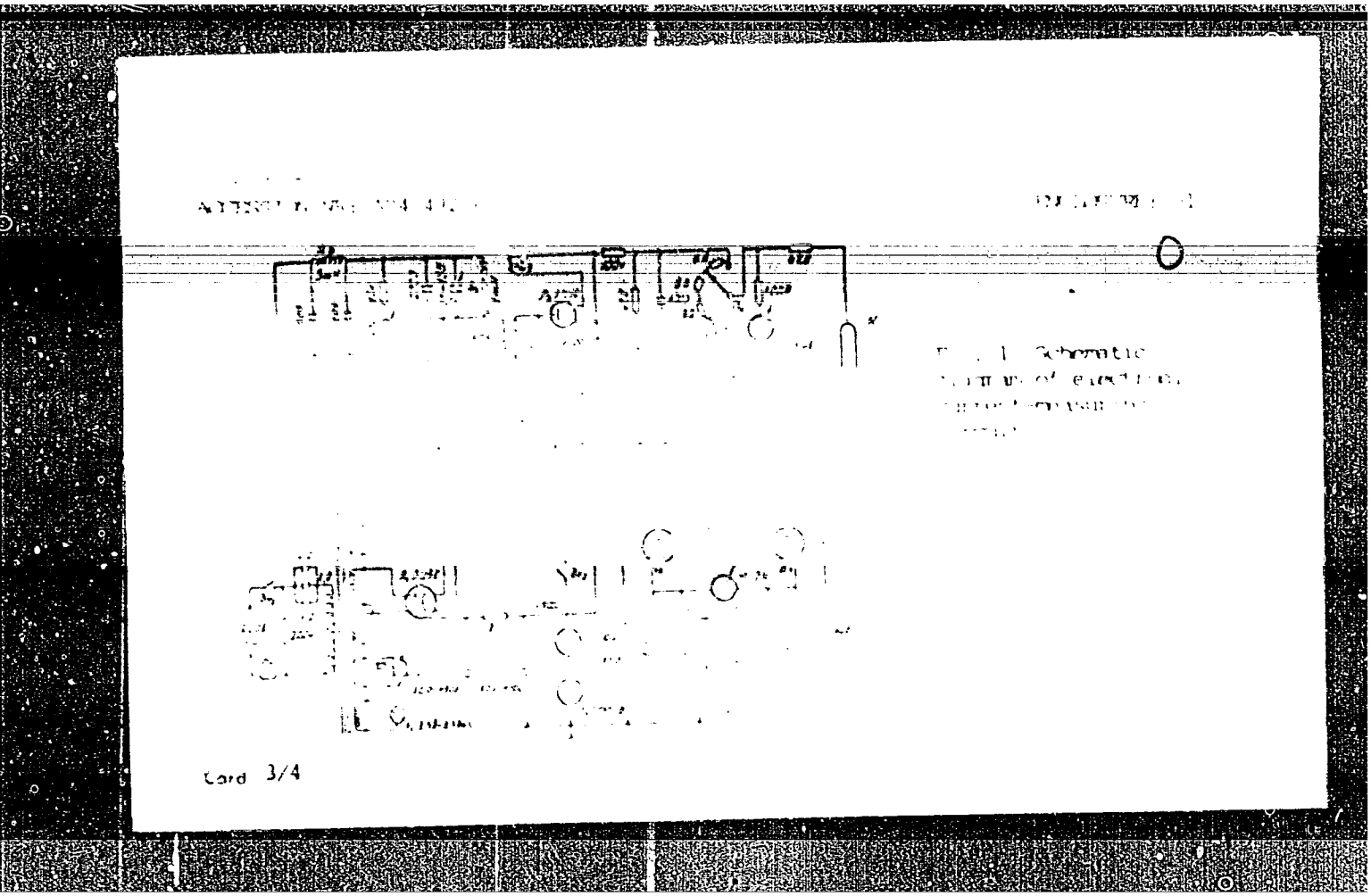

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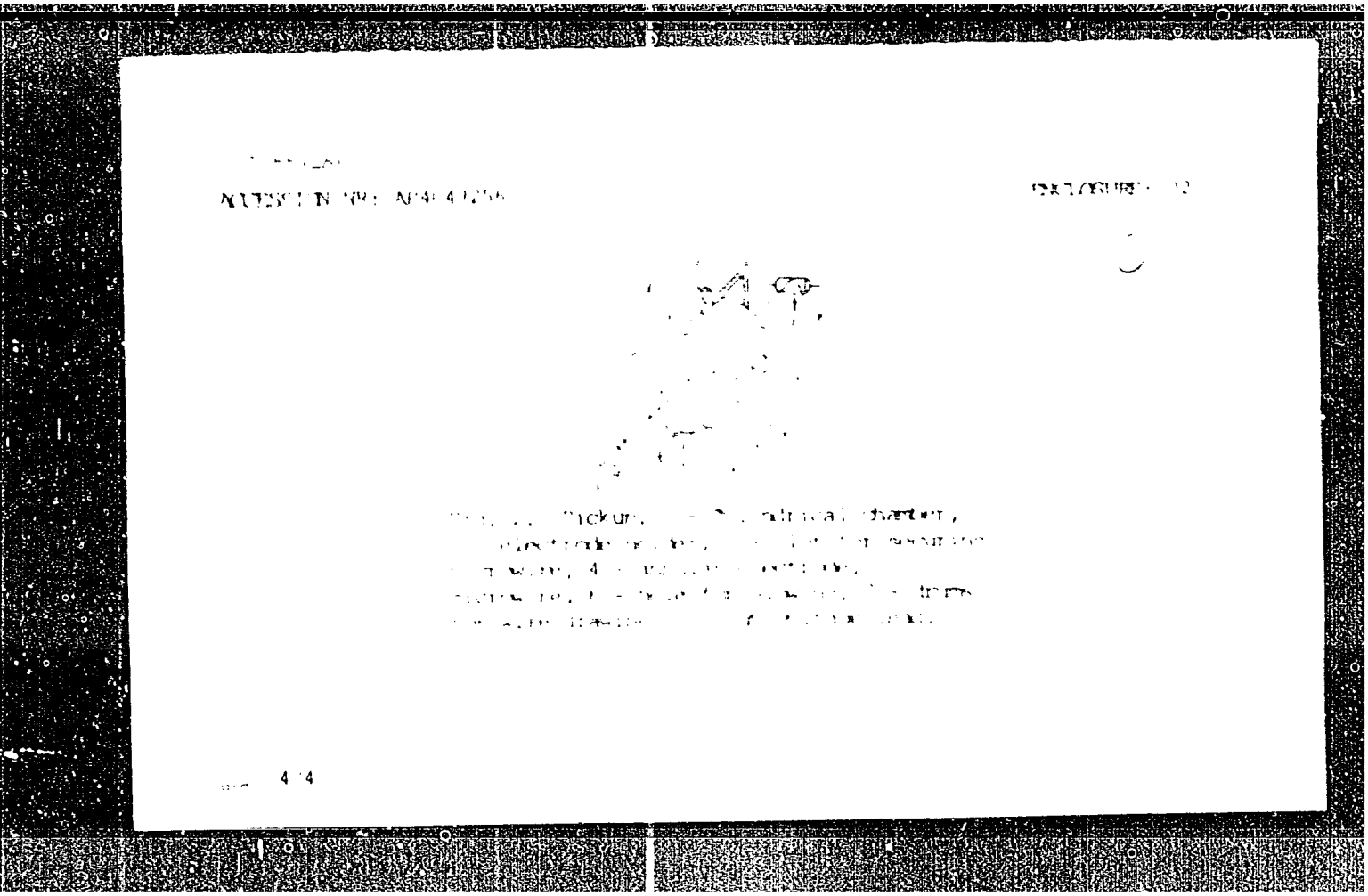

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

S/137/62/000/005/067/150
A006/A101

AUTHORS: Grinman, I. G., Ovsov, Yu. V., Mishchenko, V. S., Bakhtayev, Sh.

TITLE: A photo-electronic micrometer to measure the diameter of moving wires or threads

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 37, abstract 5D214 ("Tr. In-ta yadern. fiz. AN KazSSR", 1961, v. 4, 138-146)

TEXT: A brief review is given of existing devices for the contactless measuring of the diameter of a moving wire; their deficiencies are described. A device is proposed for measuring the diameter of a moving wire under wire-drawing industrial conditions; it assures the observation of intervals and high accuracy of measurement (5 - 10 $\mu$). The measuring accuracy is independent of the amplitude and frequency of transverse oscillations and of the wire displacement along the optical axis. The device suggested is a photo-electric ФЭМ (FEM) micrometer, which, unlike other devices, permits the automatic measurement of wire diameters in a wide range without any resetting of the apparatus. The device and its operational principle are described.

N. Ursova

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTEYEVA, Nataliya Petrovna; BONDARCHUK, Anton Vasil'yevich; ZONTOV, Vasiliy Vasil'yevich; VASILEVSKIY, N.N., red.

[Raynaud's disease; clinical aspects and neuropathophysiological studies of the central mechanisms] Bolezn' Reino; klinika, neiropatofiziologicheskie issledovaniia tsentral'nykh mekhanizmov. Leningrad, Meditsina, 1965. 188 p. (MIRA 18:4)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

ANIKIN, Anatoliy Mikhaylovich; BAKHTEYAROV, Vladimir Dmitriyevich; MECHISTIK, Roza Petrovna; BURKOV, V.I., redaktor; KHUDYAKOVA, A.V., redaktor izdatel'stva; BACHURINA, A.M., tekhnicheskiy redaktor

[Manual on the prefabrication of wooden houses] Spravochnik po zavodskomu izgotovleniiu dereviannykh domov. Moskva, Goslesbumizdat, 1957. 238 p. (MLRA 10:9)
(Buildings, Prefabricated)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

YERSHOV, P.N.; BAKHTEYAROV, V.D., red.; NIKITINA, L.V., red. izd-va.; BACHURINA, A.M., tekhn. red.

[Model houses for logging camps; "Lumber industry and forestry" pavilion] Standartnye doma dlia lesozagotovok; pavil'on "Lesnaia promyshlennost' i lesnoe khoziaistvo." [Moskva] M-vo lesnoi promyshl. SSSR [1957] 11 p. (MIRA 11:11)

1. Moscow. Vsesoyuznaya promyshlennaya vystavka. (Lumber camps)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTEYAROV, V. D.

Disposal of wood waste products. Posh.delo 3 no.4:17-18 Ap '57. (MLRA 10:7)

1. Nachal'nik otdela derevoobrabotki Ministerstva lesnoy promyshlennosti SSSR.

(Wood waste)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

KHARCHENKO, Mariya Vasil'yevna; OREKHOV, Anatoliy Yegorovich; BAKHTEYAROV, V.D., red.; BEL'CHENKO, M.I., red.izd-va; SHITS, L.V., tekhn.red.

[Mechanization and automatic control of the production of woodwork; experience of the Volga Woodworking Combine] Mekhanizatsiia i avtomatizatsiia obrabotki stoliarnykh izdelii; opyt raboty Volzhskogo derevoobrabatyvaiushch ego kombinata. Moskva, Goslesbumizdat, 1958. 18 p. (MIRA 12:4)

(Joinery)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

ANIKIN, Anatoliy Mikhaylovich; ANTONOVA, Rosa Petrovna; BAKHTEYAROV, Vladimir Dmitriyevich; USANOV, Petr Alekseyevich, retsenzent, otv.red.; BURKOV, Vasiliy Ivanovich, retsenzent; PITEROAN, Ye.L., red.izd-va; KORNYUSHINA, A.S., tekhn.red.

[Building prefabricated wooden houses] Zavodskoe dereviannoe domostroenie. Moskva, Goslesbumizdat, 1960. 230 p. (MIRA 13:9)

(Buildings, Prefabricated) (Building, Wooden)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

BAKHTEYAROV, V.D.; ZAGOSKINA, G.V., red.; SHENDAREVA, L.V., tekhn. red.

[Ways of increasing the yield of wood products and the efficient utilization of wastes] Puti povysheniia vykhoda produktsii iz drevesiny i ratsional'nogo ispol'zovaniia otkhodov. Moskva, TSentr. in-t tekhn. informatsii i ekon. issl. po lesnoi, bumazhnoi i derevoobrabatyvaiushchei promyshl., 1962. 71 p. (MIRA 16:6)
(Wood-using industries) (Wood waste)

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B102/B214

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AUTHORS: Gverdtsiteli, I. G., Nikolayev, Yu. V., Oziashvili, Ye. D., Ordzhonikidze, K. G., Muskhelishvili, G. N., Kiladze, N. Sh., Mikirtumov, V. R., Bakhtadze, Z. I.

TITLE: An automatic cascade apparatus for obtaining highly concentrated heavy nitrogen isotope

PERIODICAL: Atomnaya energiya, v. 10, no. 5, 1961, 487-492

TEXT: The growing use of $N^{15}$ in different domains (for example, $N^{15}$ nitrates in homogeneous reactors; $N^{15}$ has a thermal neutron capture cross section of $2 \cdot 10^{-5}$ b, whereas the value for natural nitrogen is 1.8 b) makes it of interest to develop suitable methods for the preparation of this isotope. The principal difficulty lies in the smallness (0.365 %) of $N^{15}$ content in the natural nitrogen. Spindel and Taylor (Ref. 1: W. Spindel, T. Taylor. J. Chem. Phys., 23, 981 (1955); 24, 626 (1956); Trans. N. Y. Acad. Sci., 19, 3 (1956); T. Taylor, W. Spindel. Proceedings of the

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An automatic cascade apparatus for...

International Symposium on Isotope Separation. Amsterdam, North - Holland Publishing Company, 1958, p. 158; L. Kauder, T. Taylor, W. Spindel. J. Chem. Phys., 31, 232 (1959)) have developed a cascade apparatus with two columns allowing $N^{15}$ to be obtained with 99.8 % purity. On this basis the authors of the present paper have developed and constructed an automatic cascade apparatus that allows 99.8 % pure $N^{15}$ to be obtained from natural nitrogen by the method of $NO-HNO_3$ exchange. The yield is about 0.5 g per day. The chemical exchange $NO-HNO_3$ is described in Ref. 1, and also in the introduction of the present paper. Fig. 2 shows the scheme of construction of the actual automatic apparatus; 3 and 6 (in Fig. 2) correspond to the first and the second column of the cascade. The $HNO_3$ is conveyed from the reservoir 1 to the first column via a regulating valve 4 and a flow meter 2. The enriched solution is taken through a regulating valve 5 and a second flow meter 2 to the upper part of the second column for further enrichment, the remaining part flowing through the sleeve pipe 7 into the reactor. In the reactor 10 $HNO_3$ reacts with $SO_2$. The oxide

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An automatic cascade apparatus for...

mixture produced is led into the column 3 where it reacts with nitric acid with isotope exchange. The $HNO_3$ from column 6 enters the reactor 9 (which is analogous to the reactor 10). The nitric oxide from the reactors is brought back to the column 6 and reaches finally the lower part of the first column. The NO free of $N^{15}$ is discharged from the cascade; the $H_2SO_4$ formed in the reactors is led off to the reservoir. The $HNO_3$ enriched in $N^{15}$ is led away from the lower part of the second column through an electromagnetic dropper 8. Columns, valves, and connecting pieces are made of nonrusting steel of the type 1X19N9T (1Kh19N9T). The packing material is teflon. The reactors consist of quartz. The automatic regulation is related to the stabilization of the acid and water flows in the large and small reactor, to the stabilization of the quantity of the discharged product (acid), and the regulation of the gas addition. The regulating system consists of the automatic stabilizers, a signal block controlling the automatic regulators and stabilizers, and a feeding block. The whole regulating system is free from contacts in its working and must give an accurate and reliable performance over a period of

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An automatic cascade apparatus for...

operation. The enriched samples ($N_2$ and NO) were subjected to a mass spectroscopic investigation which allowed the isotopic composition to be determined to an accuracy of ±0.02 %. Depending on the amount of nitrogen taken the concentrations are given by:

| Nitrogen taken, g/day | $N^{15}$ concentration, % |
|---|---|
| 0.55 | 99.8 |
| 0.69 | 64 |
| 0.84 | 50 |

The authors thank V. A. Vlasenko, R. V. Tishchenko, R. M. Sakandelidze, D. K. Puradashvili, G. L. Partsakhashvili, L. V. Yermakova, A. M. Gasparov, M. S. Mikhelashvili, L. I. Chernova, S. V. Bubnov, and I. A. Kuras for collaboration. There are 5 figures, 1 table, and 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc.

SUBMITTED: June 7, 1960

Legend to Fig. 2: Specifications of length in mm; (A) outlet of the product.

(NOTE: Due to the size of the figure, we were unable to fit it to a master.)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103110016-8

KAUFTEYEVSKIY, Rostislav Yevgen'yevich; TARAKANOVA, Aleksandra Aleksandrovna; TURETSKIY, Samuil V[illegible]'fovich; BAKHTEYAROV, V.P., red.

[Mechanized continuous sawmilling with the R63 log frame saws] Mekhanizirovannyye potoki s lesopil'nymi ramami R63. Moskva, Izd-vo "Lesnaia promyshlennost'," 1964. 35 p. (MIRA 17:6)

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"Cytological Investigation of the First Generation of the Wheat-Elimus Hybrid," F. Kh. Bakhteyev, I. A. Palamarchuk, Inst Grain Econ of Nonblack Earth, 3 pp

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| Name | Title of Work | Nominated by |
|---|---|---|
| Bakhteyev, F. Kh. | "The Problem of the Ecology, Philogeny, and Selection of Barleys" | Botanical Institute imeni V. L. Komarov, Academy of Sciences USSR |

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Dokl.AN SSSR 110 no.1:153-155 S-O '56. (MLRA 9:11)

1. Predstavleno akademikom N.V.TSitsinym.
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VAVILOV, N.I. akademik; BAKHTEYEV, F.Kh., professor, doktor sel'skokhozyaystvennykh nauk, otvetstvennyy redaktor; BARANOV, P.A., redaktor; BAKHTEYEV, F.Kh, redaktor; DAVITAYA, F.F., redaktor; ZHUKOVSKIY, P.M., redaktor; IVANOV, N.F., redaktor; SUKACHEV, V.N., akademik, redaktor; TSITSIN, N.V., akademik, redaktor; VIKHREV, S.D., redaktor izdatel'stva; BLYNYKH, E.Yu., tekhnicheskiy redaktor.

[World resources of varieties of grain, pulse crops and flax, and their utilization in plant breeding Agroecological survey of the most important field crops] Mirovye resursy sortov khlebnykh zlakov, zernovykh bobovykh, l'na i ikh ispol'zovanie v selektsii. Moskva, Izd-vo Akad.nauk SSSR. Opyt Agroekologicheskogo obozreniia vazhneishikh polevykh kur'tur. 1957. 462 p. (MIRA 10:5)

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1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.
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